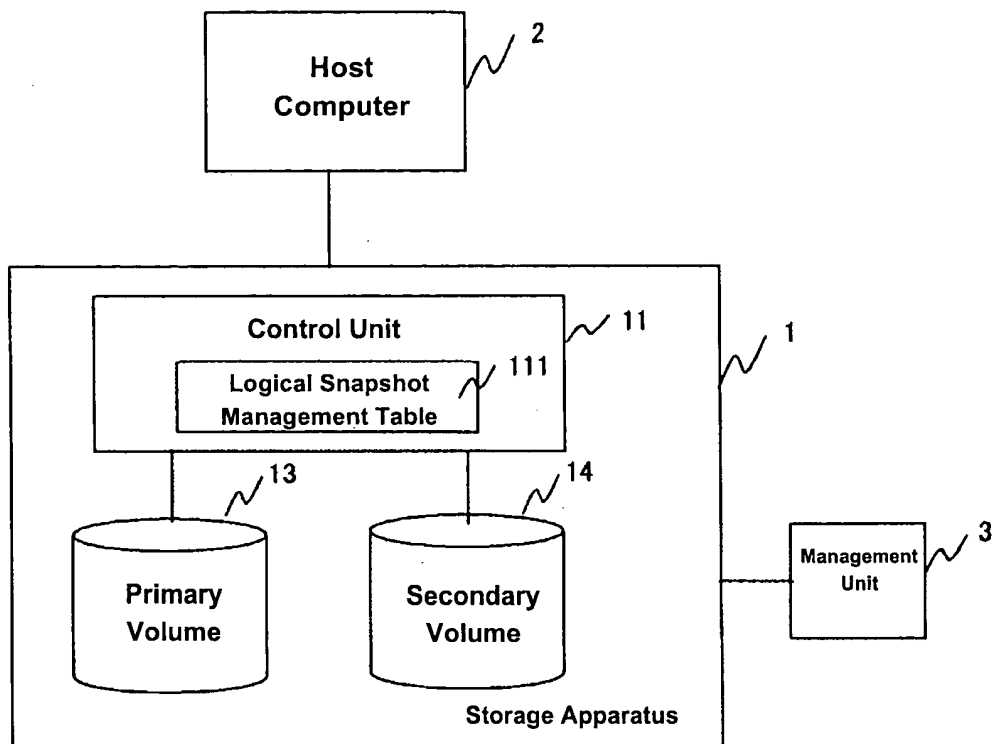
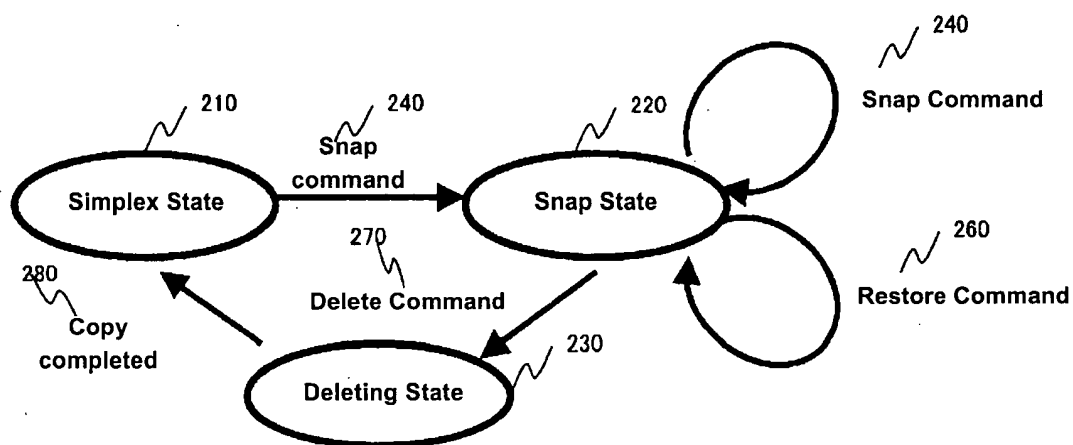
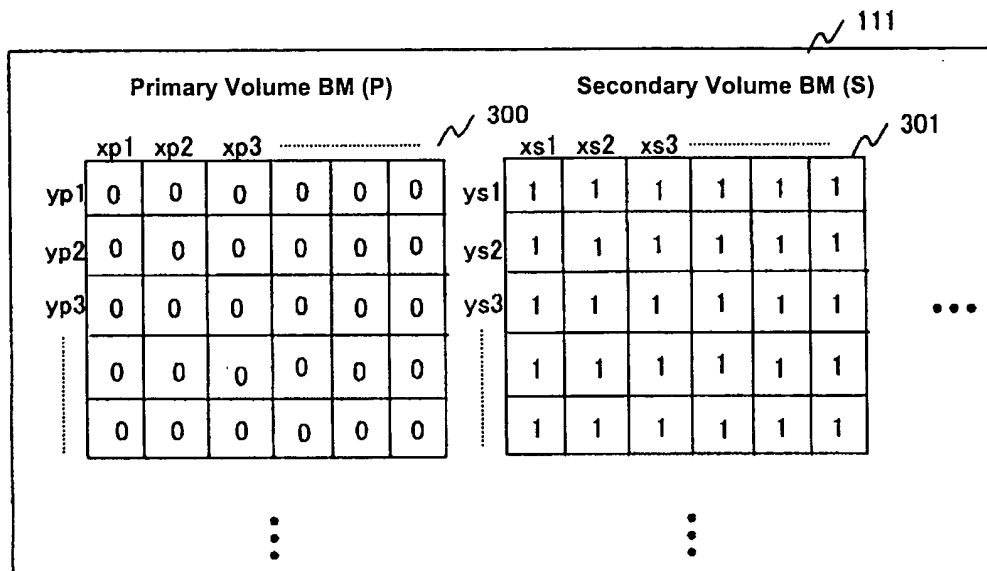


**Fig. 1**

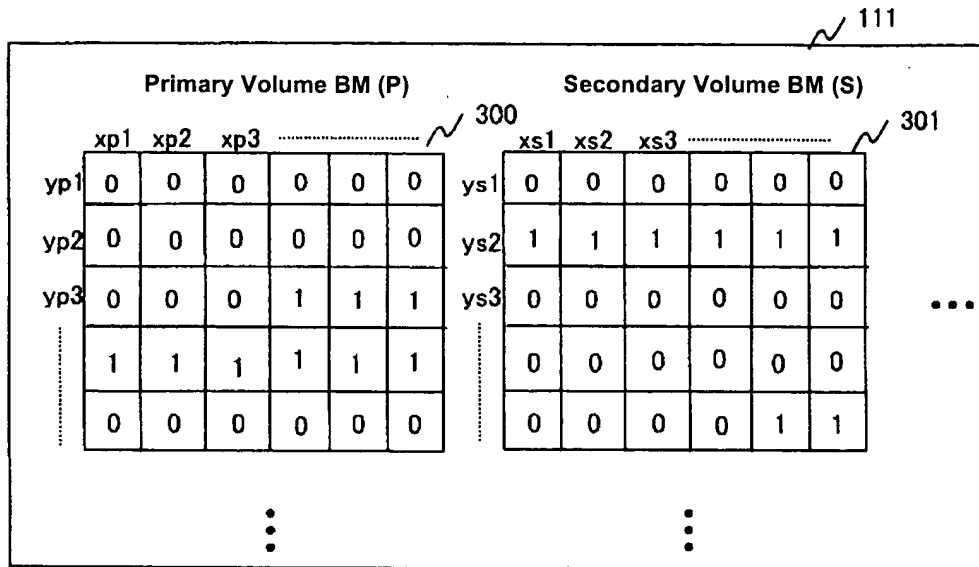


**Fig. 2**





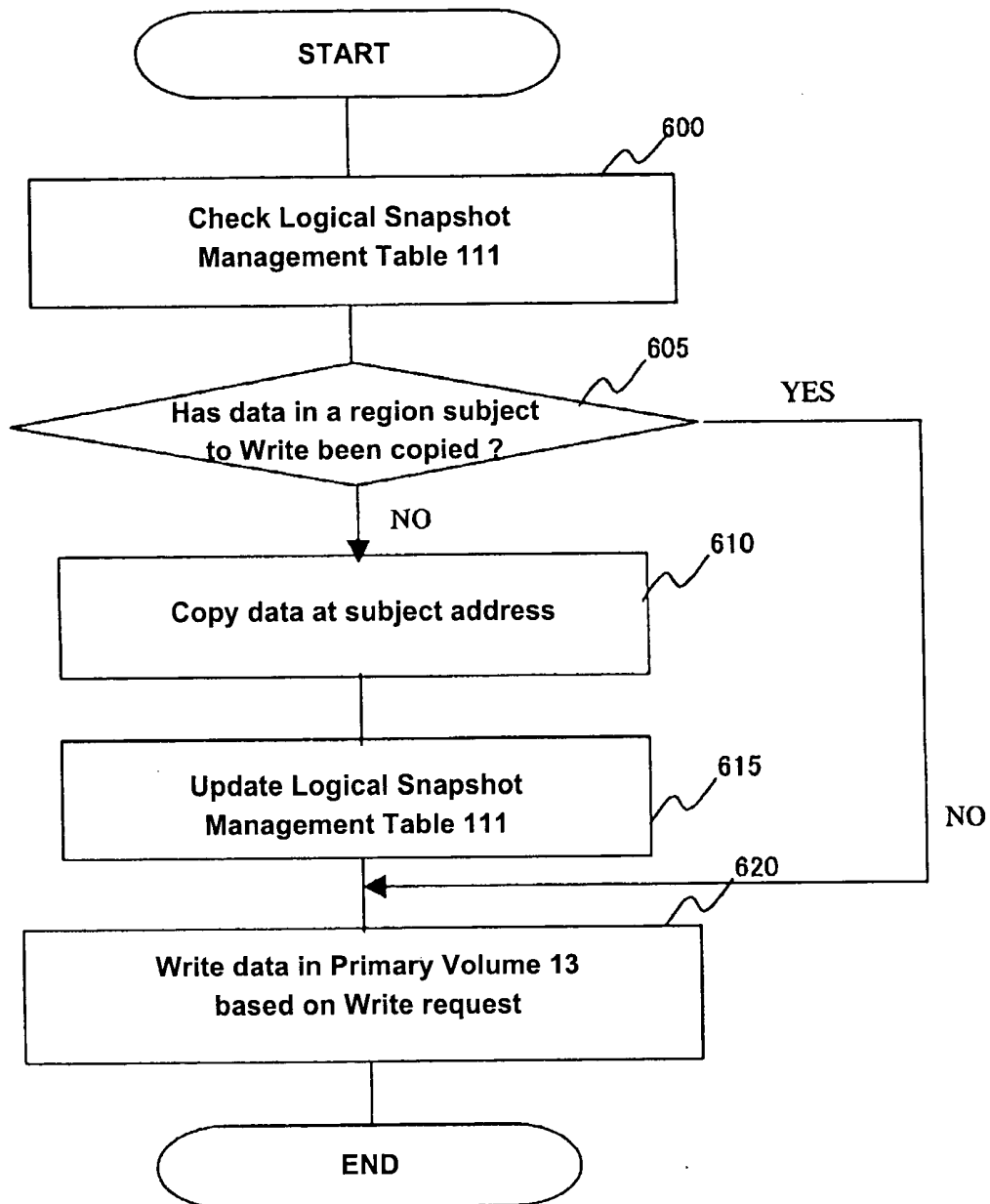
**Fig. 4**



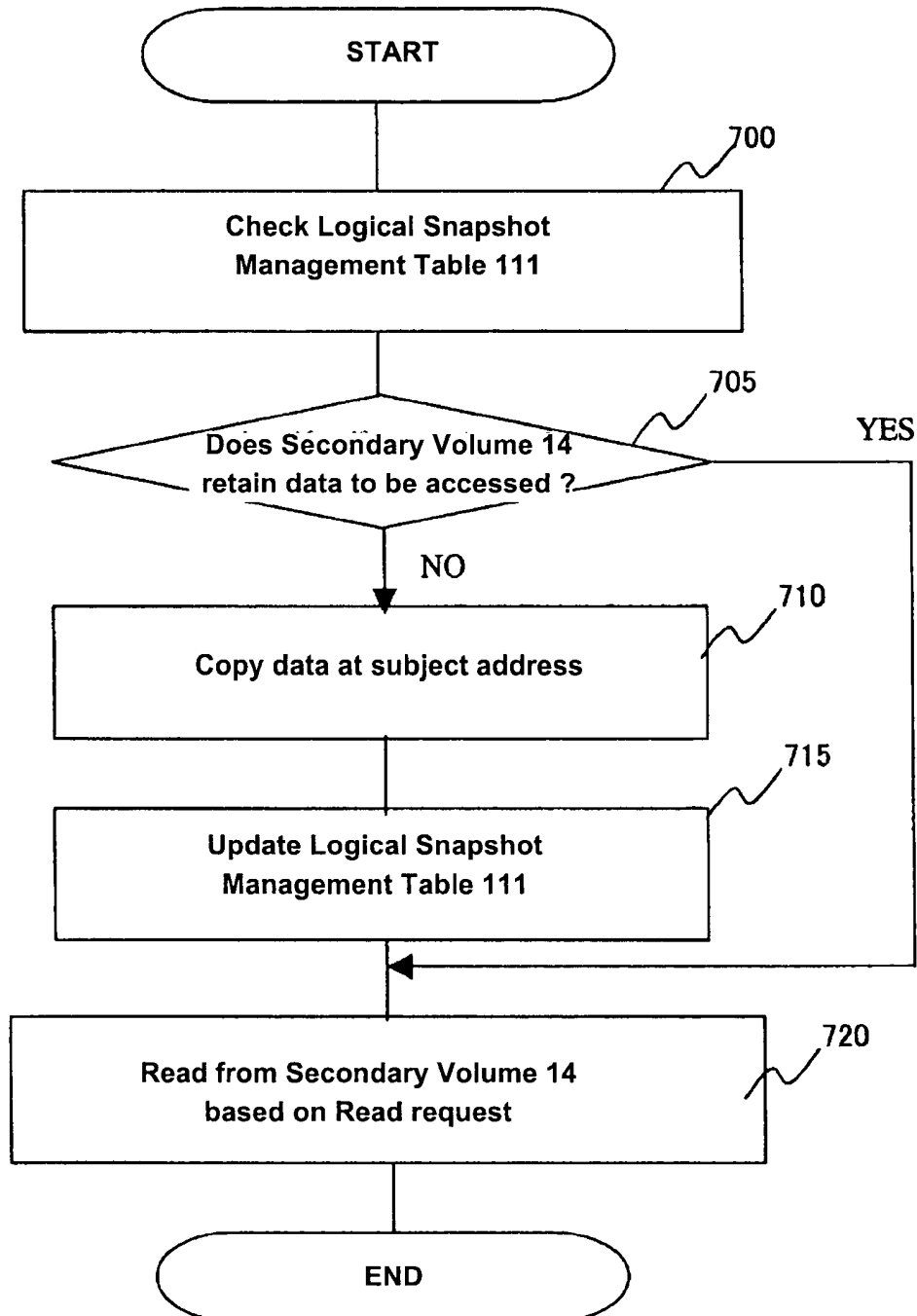
**Fig. 5**

State before Execution BM (P, S)	Access to Primary Volume		Access to Secondary Volume	
	Read	Write	Read	Write
(0, 0)	(0, 0)	(0, 0)	(0, 0)	(0, 0)
(0, 1)	(0, 1)	(0, 0)	(0, 0)	(0, 0)
(1, 0)	(0, 0)	(0, 0)	(1, 0)	(0, 0)
(1, 1)	N/A			

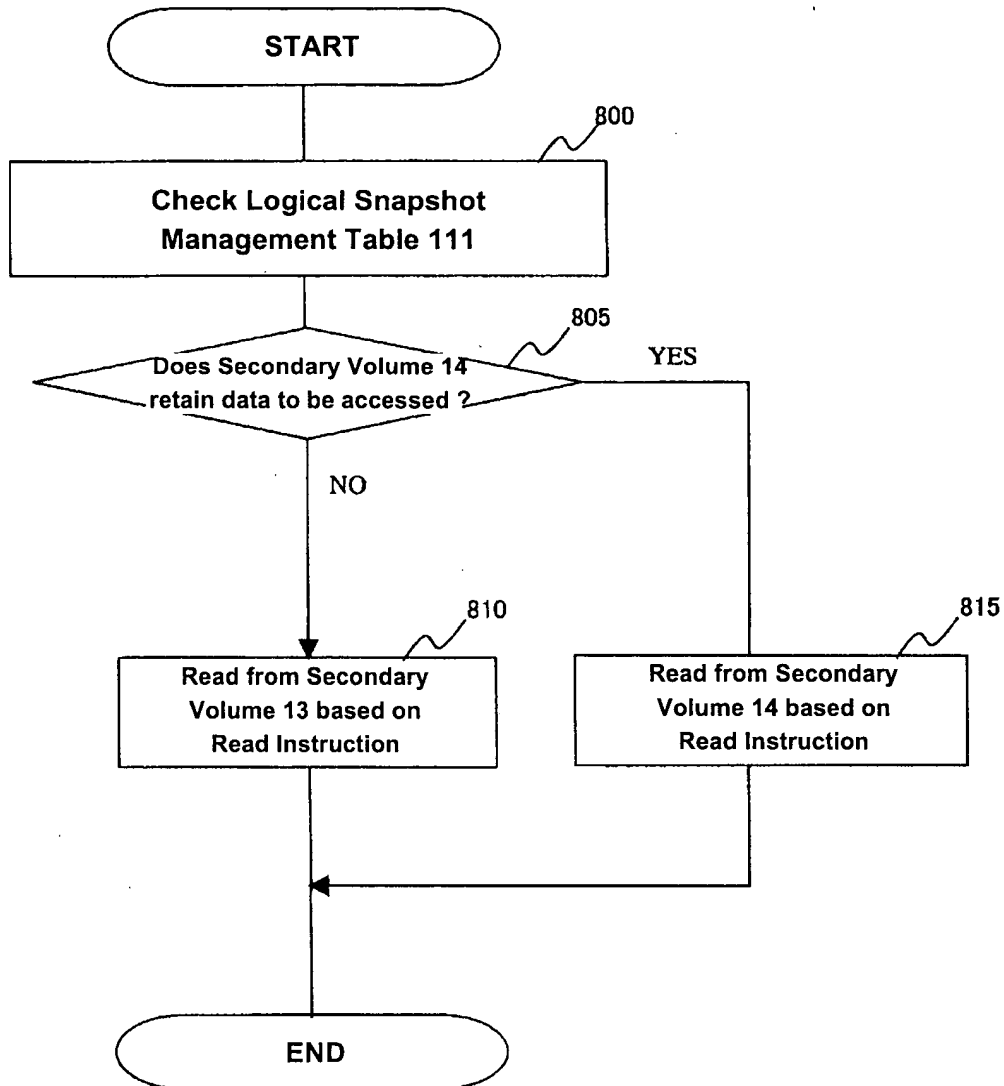
**Fig. 6**



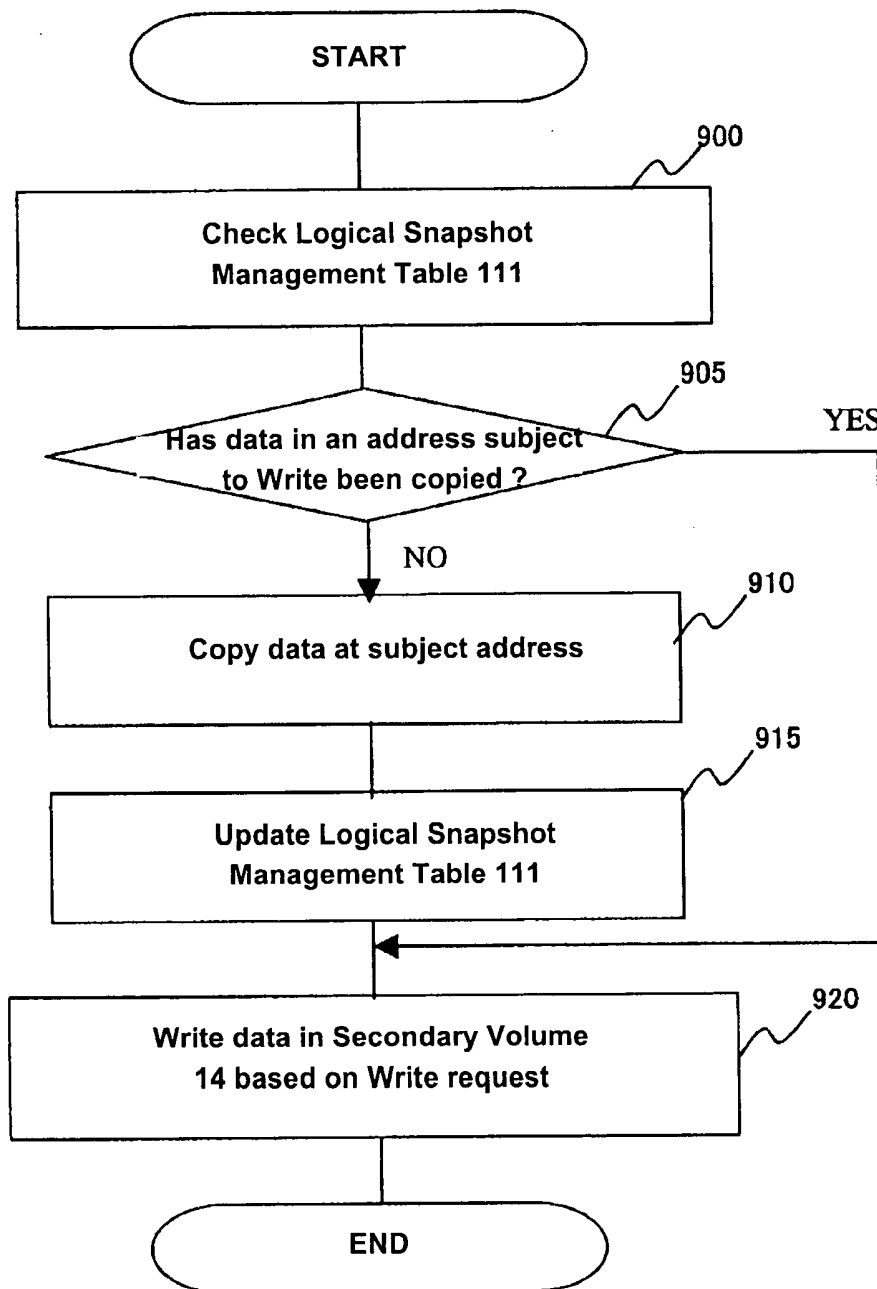
**Fig. 7**



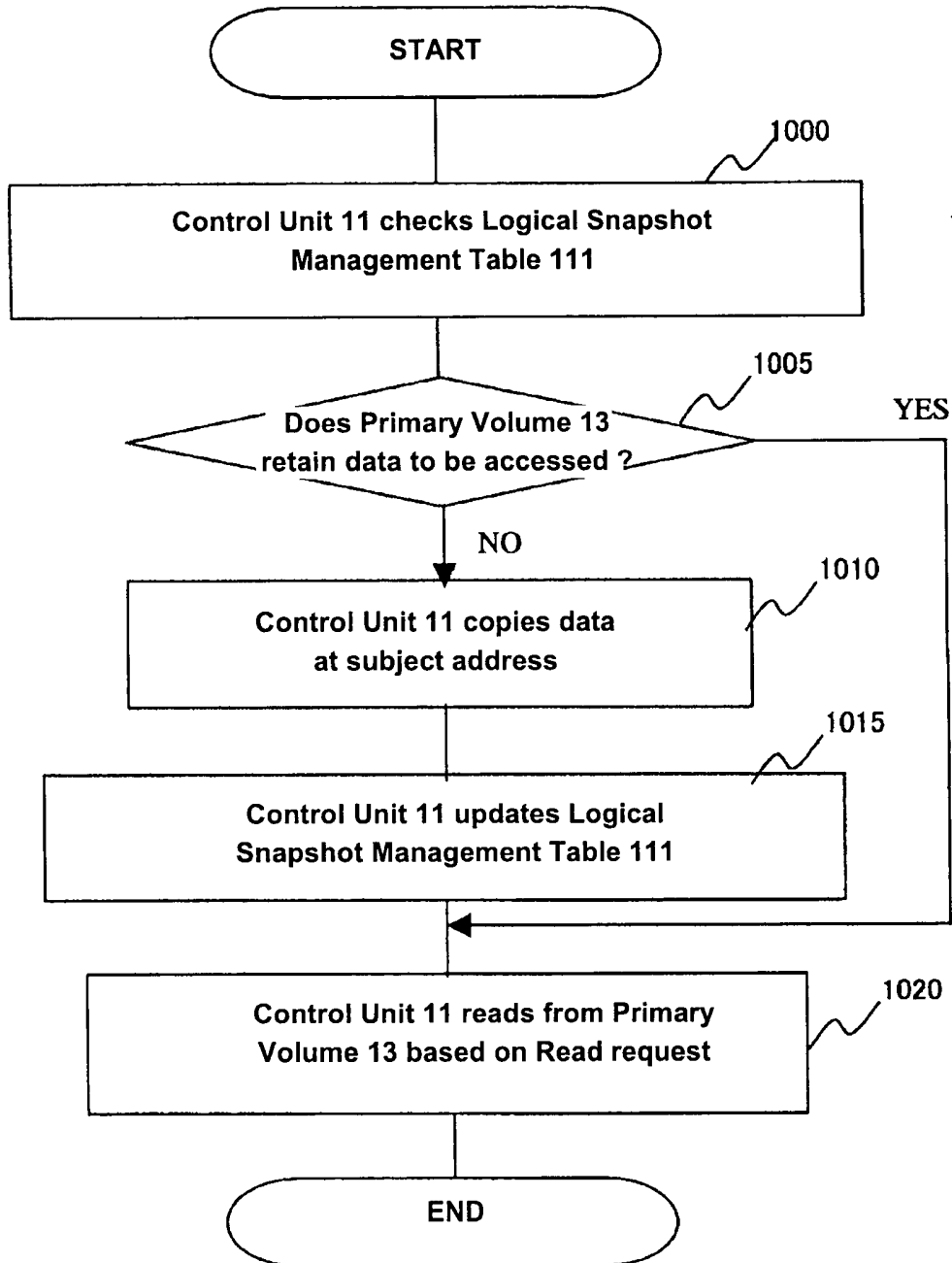
**Fig. 8**



**Fig. 9**



**Fig. 10**





**Fig. 11**

State before Execution (P, S)	State after receiving Snap command	State after receiving Restore command
(0, 0)	(0, 1)	(1, 0)
(0, 1)	(0, 1)	(0, 1)
(1, 0)	(1, 0)	(1, 0)
(1, 1)	N/A	

Fig. 12

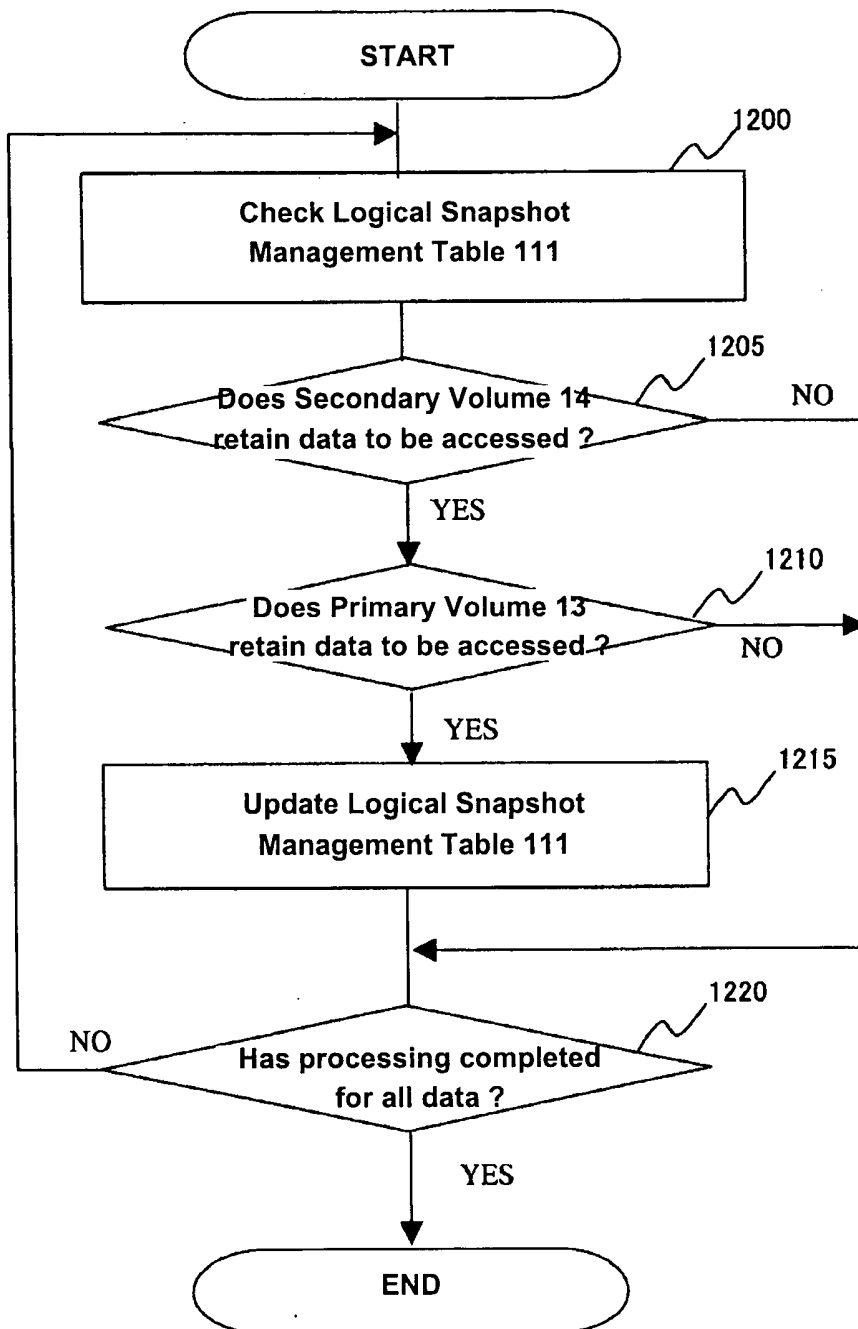


Fig. 13

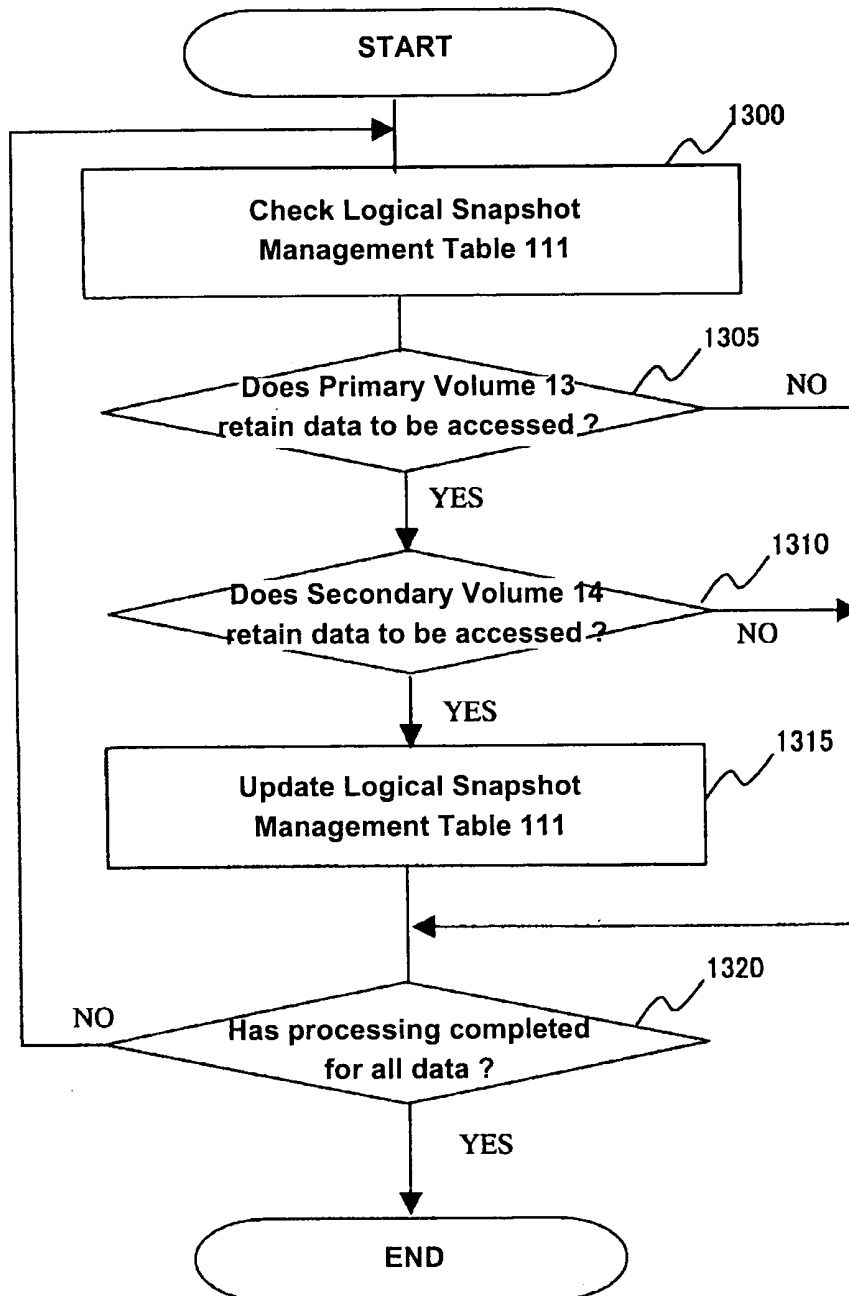
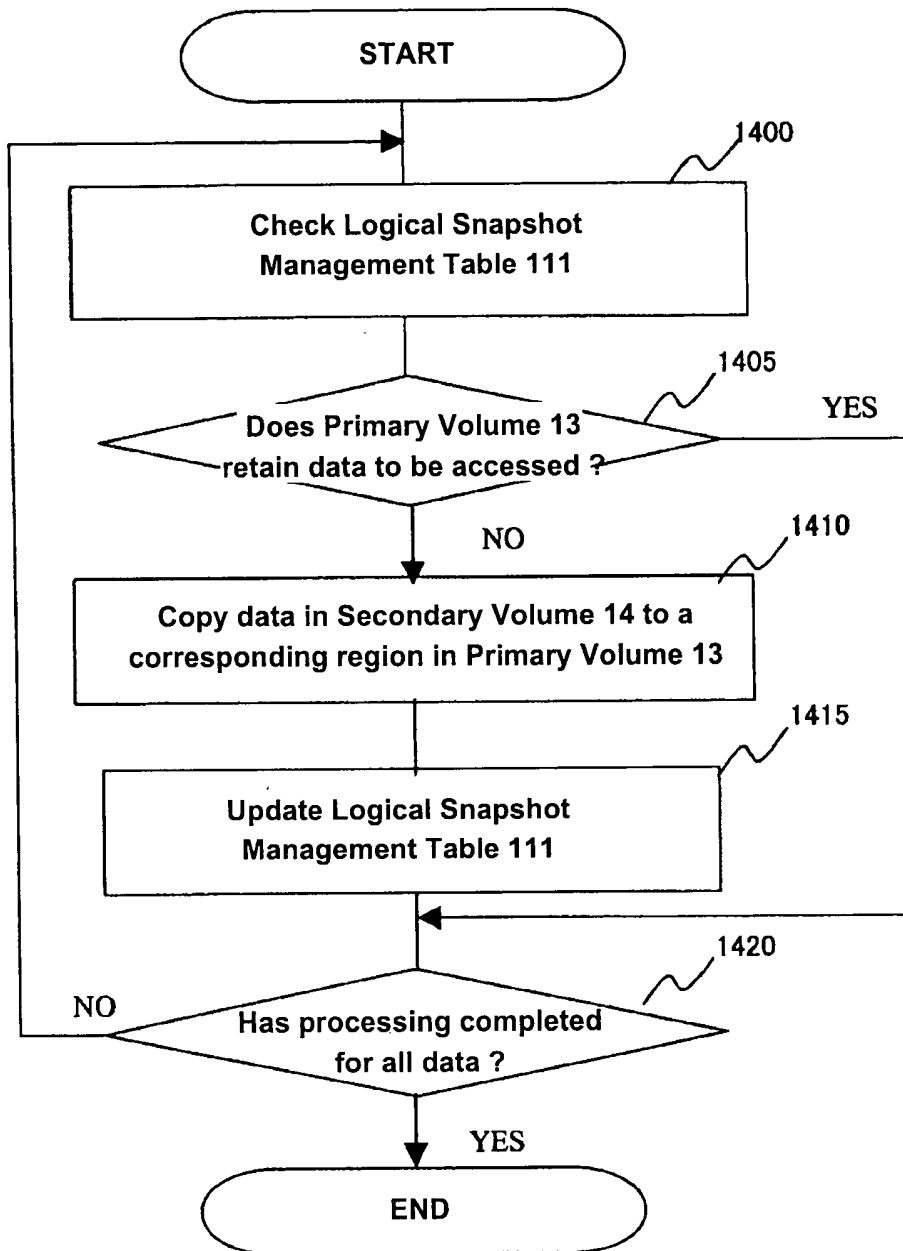


Fig. 14



**Fig. 15**

State before Execution (P, S)	State after receiving Delete command
(0, 0)	(0, 0)
(0, 1)	(0, 1)
(1, 0)	(1, 0)
(1, 1)	N/A

Fig. 16

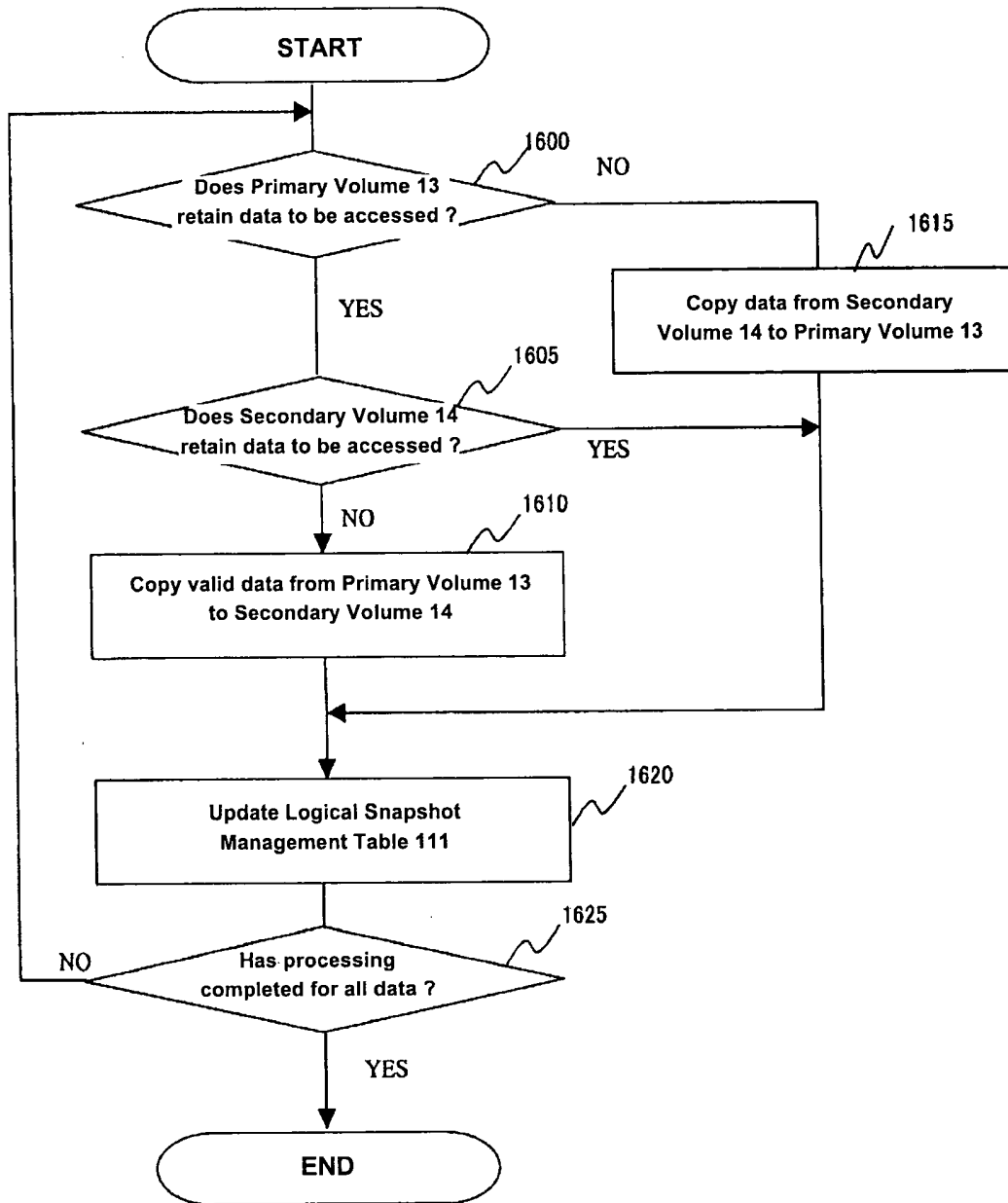


Fig. 17

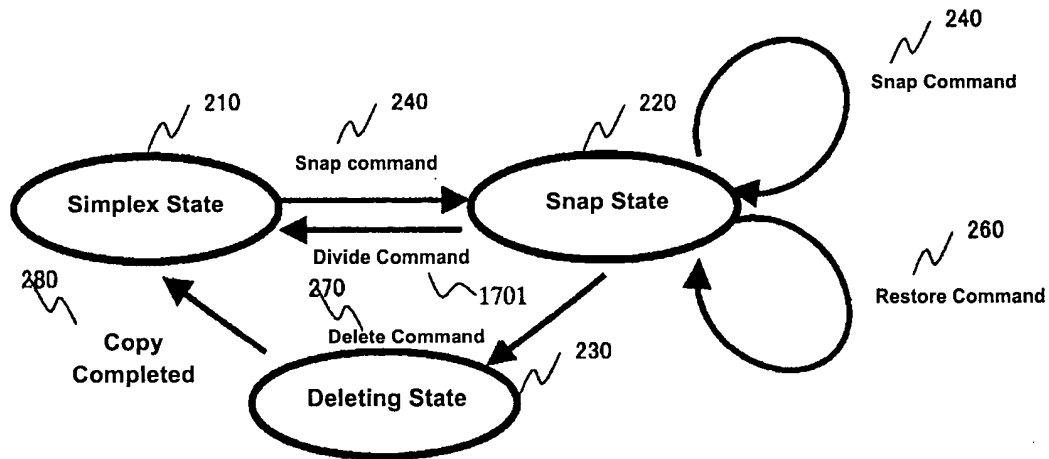


Fig. 18

